

# THERAPEUTIC BINDING AGENTS AGAINST MUC-1 ANTIGEN AND METHODS FOR THEIR USE

## Abstract of the disclosure

5           The invention provides therapeutic compositions comprising binding  
agents that specifically bind to tumor-associated MUC-1 and reduce, reverse or  
prevent their effects in cancer. More particularly, the invention provides  
therapeutic compositions that comprise a binding agent that can specifically bind  
10           to an epitope that comprises both peptide and carbohydrate on such tumor-  
associated MUC-1. The invention further provides methods for the use of such  
therapeutic compositions in the treatment of cancer.

          The invention also provides methods for therapeutically treating a  
mammal bearing a tumor comprising administering to the mammal an effective  
amount of a therapeutic composition consisting essentially of a binding agent  
15           that specifically binds to an epitope of tumor-associated MUC1, wherein the  
mammal generates an immune response that comprises an antibody that  
specifically binds to an epitope of tumor-associated MUC1 that is different from  
the epitope of tumor associated MUC1 that is specifically bound by the binding  
agent.